```
EEEEEEEEEEEEEEE  MMM       MMM  UUU        UUU  LLL              AAAAAAAAA    TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE MMM       MMM  UUU        UUU  LLL              AAAAAAAAA    TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE MMM       MMM  UUU        UUU  LLL              AAAAAAAAA    TTTTTTTTTTTTTTT
EEE              MMMMM   MMMMM  UUU        UUU  LLL            AAA       AAA        TTT
EEE              MMMMM   MMMMM  UUU        UUU  LLL            AAA       AAA        TTT
EEE              MMMMMM MMMMMM  UUU        UUU  LLL            AAA       AAA        TTT
EEE              MMM MM MM MMM  UUU        UUU  LLL            AAA       AAA        TTT
EEE              MMM  MMM  MMM  UUU        UUU  LLL            AAA       AAA        TTT
EEE              MMM   M   MMM  UUU        UUU  LLL            AAA       AAA        TTT
EEEEEEEEEEEEE    MMM       MMM  UUU        UUU  LLL            AAA       AAA        TTT
EEEEEEEEEEEEE    MMM       MMM  UUU        UUU  LLL            AAA       AAA        TTT
EEEEEEEEEEEE     MMM       MMM  UUU        UUU  LLL            AAA       AAA        TTT
EEE              MMM       MMM  UUU        UUU  LLL            AAAAAAAAAAAAAAA      TTT
EEE              MMM       MMM  UUU        UUU  LLL            AAAAAAAAAAAAAAA      TTT
EEE              MMM       MMM  UUU        UUU  LLL            AAAAAAAAAAAAAAA      TTT
EEE              MMM       MMM  UUU        UUU  LLL            AAA       AAA        TTT
EEE              MMM       MMM  UUU        UUU  LLL            AAA       AAA        TTT
EEEEEEEEEEEEEEEE MMM       MMM  UUUUUUUUUUUUUUU LLLLLLLLLLLLLL AAA       AAA        TTT
EEEEEEEEEEEEEEEE MMM       MMM  UUUUUUUUUUUUUUU LLLLLLLLLLLLLL AAA       AAA        TTT
EEEEEEEEEEEEEEEE MMM       MMM  UUUUUUUUUUUUUUU LLLLLLLLLLLLLL AAA       AAA        TTT
```

```
Sym
---
CMP
DEC
DEC
DEC
DEC

DEC
EXE
EXE
EXE
MMG
MMG
MOV
PRS
SYS
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
VAX
```

```
VV        VV    AAAAAA     XX      XX   SSSSSSSS  TTTTTTTTTT     AAAAAA    TTTTTTTTTT  UU      UU   SSSSSSSS
VV        VV    AAAAAA     XX      XX   SSSSSSSS  TTTTTTTTTT     AAAAAA    TTTTTTTTTT  UU      UU   SSSSSSSS
VV        VV    AA    AA   XX      XX   SS            TT       AA      AA      TT      UU      UU   SS
VV        VV    AA    AA   XX      XX   SS            TT       AA      AA      TT      UU      UU   SS
VV        VV    AA    AA     XX  XX     SS            TT       AA      AA      TT      UU      UU   SS
VV        VV    AA    AA     XX  XX     SS            TT       AA      AA      TT      UU      UU   SS
VV        VV    AA    AA       XX       SSSSSS        TT       AA      AA      TT      UU      UU   SSSSSS
VV        VV    AA    AA       XX       SSSSSS        TT       AA      AA      TT      UU      UU   SSSSSS
VV        VV    AAAAAAAAAA   XX  XX         SS        TT      AAAAAAAAAA      TT      UU      UU       SS
VV        VV    AAAAAAAAAA   XX  XX         SS        TT      AAAAAAAAAA      TT      UU      UU       SS
   VV  VV       AA      AA   XX      XX     SS        TT       AA      AA      TT      UU      UU       SS
   VV  VV       AA      AA   XX      XX     SS        TT       AA      AA      TT      UU      UU       SS
     VV         AA      AA   XX      XX   SSSSSSSS    TT       AA      AA      TT      UUUUUUUUUU   SSSSSSSS
     VV         AA      AA   XX      XX   SSSSSSSS    TT       AA      AA      TT      UUUUUUUUUU   SSSSSSSS

LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II            SS
LL                II            SS
LL                II            SS
LL                II            SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS
```

```
 1              .TITLE  VAX$STATUS - Status Definitions for VAX-11 Instruction Emulator
 2              .IDENT  "V04-000"
 3
 4      ;***************************************************************************
 5      ;*                                                                         *
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22      ;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                *
23      ;*                                                                         *
24      ;*                                                                         *
25      ;***************************************************************************
26
27      ;++
28
29      ; Facility:
30
31      ;       VAX-11 Instruction Emulator
32
33      ; Abstract:
34
35      ;       This file contains status codes for exceptions that are specific
36      ;       to the VAX-11 instruction emulator.
37
38      ; Author:
39
40      ;       Lawrence J. Kenah
41
42      ; Creation Date:
43
44      ;       23 March 1983
45
46      ;       V01-002 LJK0021          Lawrence J. Kenah        17-Mar-1984
47      ;               Add status code for DIVP internal error
48
49      ;       V01-001 Original         Lawrence J. Kenah        23-Mar-1983
50      ;               Original version of this module
51      ;--
```

```
                 52
                 53
   00000013      54          .FACILITY        VAX , 19 /SYSTEM /PREFIX=VAX$_
                 55
                 56          .SEVERITY        FATAL             ! All of these are fatal
                 57
                 58 ! The first two codes merely define exception names that are associated with
                 59 ! the two exceptions defined in the microVAX architecture to support
                 60 ! software emulation of the decimal and string instructions.
                 61
   0013800C      62          OPCDEC           <reserved opcode (code=!XL) attempted at PC=!XL> /FAO=2
                 63
   00138014      64          OPCDEC_FPD       <reserved opcode (code=!XL) attempted with FPD set at PC=!XL> /FAO=2
                 65
                 66 ! If an exception occurs and the exception dispatch logic determines that the
                 67 ! emulator was not entered in a standard way, this code is appended to the
                 68 ! beginning of the signal array and the new exception is reflected back to
                 69 ! the VMS exception dispatcher.
                 70
   0013801C      71          ABORT            <exception (name=!XL) occurred after nonstandard entry into emulator
                 72
                 73 ! There are currently two consistency check made by the emulator that can
                 74 ! result in conditions not already covered by the VAX Architecture. Both
                 75 ! exceptions consist of the VAX$_INTERNAL status code followed by a longword
                 76 ! code that indicates the particular consistency check that failed. Note that
                 77 ! if the assumptions made by the logic in the emulator are correct, these
                 78 ! errors will NEVER be generated.
                 79
   00138024      80          INTERNAL         <internal consistency error (type=!XL) detected by emulator> /FAO=1
                 81
                 82 ! The algorithm used in the subtraction of packed decimal strings makes a
                 83 ! decision about the sign of the final result. This choice demands that the
                 84 ! final subtraction NOT produce a borrow. If a borrow results from the final
                 85 ! subtraction, this error is generated to indicate that the algorithm is in
                 86 ! error.
                 87
                 88          .LITERAL         VAX$_SUBPx_ERROR
                 89
                 90 ! There are two indepdent counts of the byte count in the divisor string in
                 91 ! VAX$DIVP. If these counts are inconsistent, the following error is
                 92 ! generated.
                 93
                 94          .LITERAL         VAX$_DIVP_ERROR
                 95
                 96          .END
```

There were 0 errors, 0 warnings, and 0 informational messages issued.
MESSAGE/NOTEXT/LIS=LIS$:VAXSTATUS/OBJ=OBJ$:VAXSTATUS MSRC$:VAXSTATUS

VAXLOAD
LIS

ERFBRIEF
MAP

ERFPROC1
MAP

ERFDISK
MAP

ERFBUS
MAP

ERFINICOM
MAP

ERFCOMMON
MAP

VAXSTATUS
LIS

ENCRYP   ERF

ENCSTUBS   ERF
LIS   MAP

ERFPROC2
MAP

VAXSTRING
LIS